

CONSTRUCTION

PRODUCTS

DIVISION

REQUEST FOR TECHNICAL SERVICES

RECD JUN 12 1977

REF ID: 67565

SUBCUT: Zonolite

DATE: 7/11/77

COLLECT. NO.: 71-046

REQUESTOR: F.W. Eaton

MARKETING or MANUFACTURING APPROVAL:

NAME: T.E. Hamilton

APPROVED: T. E. Hamilton (sp)PAGE 1  
02225665

PROBLEM TITLE: Environmental Evaluation - Air - Fibrous Materials

SIGNIFICANCE: The evaluation of workplace air on a periodic basis is necessary to comply with the air sampling section of the OSHA Asbestos Standard.

SPECIFIC OBJECTIVE: Determine fiber counts for filter media.

SUGGESTED APPROACH: Phase contrast microscopy.

DEADLINE (Last day information will be of value): 2 weeks

DETAILS OF PROBLEM: Evaluate 6 samples from Savannah, N.Y. (attic test)

ACCEPTED BY RESEARCH DEPT.: Gray

DATE: 7/11/77

ASSIGNED TO: M. DoyleADDITIONAL COPIES: Original to Library, H.C.Duecker, H.A.Eschenbach, F.W.Eaton, R.M.Vining  
E.S.Wood, J.W.Wolter, B.R.Williams, W.R.Hanlon,  
CPD-T&A, File: 71-046

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REQUEST FOR TECHNICAL SERVICE

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**SUMMARY:**

Six attic test samples were received from Savannah, New York, and evaluated. Sample 18AS-PR2 was extremely dusty and impossible to read with any accuracy. The other five samples all showed fiber counts of greater than 7.5 fibers per cc of air.

NUMBER: 67567 67565

GRANITE ZONOLITE

ACTUAL COST: \$140.00

REPORTING DATE: July 11, 1977

02225666

**RELEVANT PRIOR TECHNICAL SERVICE:**

**CONCLUSIONS:**

**DATA AND ANALYSIS:**

See attachment.

*Matthew A. Doyle*  
\_\_\_\_\_  
M. A. Doyle

MAD:mhr

attachment

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4. HOME WAS BUILT APPROX 25 yrs Ago WITH THE ATTIC INSULATION. ABOUT 5 yrs Ago 1-2" OF ZONALITE ATTIC FILL WAS Poured. IT LOOKED LIKE A MIXTURE OF 1/2 WITH MANY FINES.
5. BEFORE THESE TESTS WERE CONDUCTED, ATTIC EXHAUST FAN (Variable Speed 36" Wheel) WAS TURNED ON FOR 20 MIN.
6. HEIGHT<sup>②</sup> FROM RIDGE APPROX 5FT. MAN IN STOOPED OR KNEELING POSITION WHILE POURING. ALL 24 BAGS WERE RAISED TO ATTIC BEFORE CONDUCTING TEST.
7. 8 SAMPLING POINTS WERE STARTED IN ATTIC JUST PRIOR TO POURING. PUMPS WERE SHUT OFF 1MIN AFTER MAN CAME OUT OF ATTIC.
8. TEST ~~TEST~~ MATERIAL 18AS 2<sup>1/4</sup> VERY CLEAN. MATERIAL 18AS 6<sup>1/2</sup> A LITTLE DUSTY BUT NOT ANY MORE THAN SCREENED 1<sup>1/2</sup>.

7/8/77

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AIR SAMPLING RECORD SHEET

LOCATION SWATHAHA 1.1.7 SAMPLING CONDITIONS:  
 CONTAMINANT F-100Z 02225667 OUTSIDE HOT & HUMID  
 SAMPLING BY F. W. EATON INSIDE DRAFT DO NOT USE  
 DATE: 7/3/77

SHAMPING CONDITIONS:  
OUTSIDE Hot / Scorchio  
INSIDE DRAFT None Very Hot /  
VISIBLE DUST Very Little

HOUSEKEEPING:  
P. R. REYKJ. J. F. H. H.

SMALLING CONDITIONS:  
OUTSIDE Hot / Humid  
INSIDE DRAFT None / Very Hot!  
VISUAL DIST. Very Large

Employee Number	Employee Name	Job Location and Description	Remarks	Pump Number	Pump On	Pump Off	Sampling Time	Total Sampled Volume	Flow Rate	Lab Evaluation
18A5-PR1	DUKE	Pouring Atte:	Pouring 6 BAGS EACH Front	1CC-6			22	1.6	4.94	
18A5-PR2	DUKE	Fuel	TEST 18A52.54 (20 BAGS TOTAL)	1CC-7			22	1.6		
18A5-PR3	DUKE	Pouring Atte:	Pouring 3 BAGS EACH Front	1CC-6			16	1.6		
18A5-PR4	DUKE	Fuel	TESTS 18A56.58 (20 BAGS TOTAL)	1CC-7			16	1.6		
18A5-PR5	DUKE									
18A5-PR6	DUKE		SAME AS 18A5-PR3&4	1CC-6			15	1.6		
18A5-PR7	DUKE			1CC-7			15	1.6		

Additional Comments: (1) All TEST MATERIAL IS SERIOUSLY  
DIRTY & (2) (MIXED) WITH HIS Cystane FINES PRECIPITATED.  
(3) Since 1966, each sample 100% TESTED.

3 COMPARE RESULTS WITH SURNAMES. NAME & DATE TESTED  
Laboratory Evaluation By: William J. H. 1.  
Date: 1/1/68

Effort = Level 2

REC'D JUL 11 1977

Simulated Air Test

03656689

Test No

Face Pressure (f/ml)

Ave TWA  $\frac{1}{8}$ 

1BAS2	4.915	1.236
1BAS4	6.510	1.635
1BAS6	7.834	1.959
1BAS8	11.355	2.839

Ave. All Four Simulated Air Tests = 7.657 f/ml

67 min. SAMPLE TIME TWA = 1.069 f/ml

2/8 CPD STD TWA = 1.914 f/ml

Actual Mine Mine Test - SAVANNAH N.Y.

Ave of Six(6) Samples = 8.958 f/ml

53 min. SAMPLE TIME TWA = 0.989

2/8 CPD STD TWA = 2.239

5057783

~~Effort = Level 2~~